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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/197,767	•	11/23/1998	HISASHI OHTANI	0756-1896	0756-1896 1677	
31780	7590	12/15/2004		EXAMINER		
ERIC RC		Ī		CAO, P	HAT X	
PMB 955 21010 SO		K ST.		ART UNIT PAPER NUMBER		
POTOMA	C FALLS	VA 20165		2814		
				DATE MAILED: 12/15/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	-
Advisory Action	09/197,767	OHTANI ET AL.	
•	Examiner	Art Unit	
•	Phat X. Cao	2814	
The MAILING DATE of this communica	ition appears on the cover sheet wit	th the correspondence addr	ress
THE REPLY FILED 17 November 2004 FAILS Therefore, further action by the applicant is required rejection under 37 CFR 1.113 may only be condition for allowance; (2) a timely filed Notice Examination (RCE) in compliance with 37 CFR	uired to avoid abandonment of this e either: (1) a timely filed amendme e of Appeal (with appeal fee); or (3	s application. A proper repent which places the applic	oly to a cation in
PERIOD	FOR REPLY [check either a) or b))]	
a) The period for reply expires 4 months from the mable b) The period for reply expires on: (1) the mailing date event, however, will the statutory period for reply expires on: (1) the mailing date event, however, will the statutory period for reply exposed on the control of the statutory period for reply exposed on the period of the statutory period for reply exposed on the period of the statutory of the statu	e of this Advisory Action, or (2) the date set for xpire later than SIX MONTHS from the mailing EPLY WAS FILED WITHIN TWO MONTHS (a). The date on which the petition under 37 riod of extension and the corresponding amount are shortened statutory period for reply original	ng date of the final rejection. OF THE FINAL REJECTION. S CFR 1.136(a) and the appropriate unt of the fee. The appropriate extending set in the final Office action; or (See MPEP e extension fee ension fee under (2) as set forth in
1. A Notice of Appeal was filed on A 37 CFR 1.192(a), or any extension thereo			
2. The proposed amendment(s) will not be e	entered because:		
(a) they raise new issues that would req	uire further consideration and/or se	earch (see NOTE below);	
(b) they raise the issue of new matter (s	ee Note below);		
(c) they are not deemed to place the ap issues for appeal; and/or	plication in better form for appeal	by materially reducing or s	implifying the
(d) they present additional claims without NOTE:	out canceling a corresponding num	ber of finally rejected clain	ns.
3. Applicant's reply has overcome the follow	wing rejection(s):		
 Newly proposed or amended claim(s) canceling the non-allowable claim(s). 	would be allowable if submitted	d in a separate, timely filed	d amendment
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ r application in condition for allowance be		en considered but does NC	T place the
6. The affidavit or exhibit will NOT be consi raised by the Examiner in the final reject		OLELY to issues which we	re newly
7. For purposes of Appeal, the proposed an explanation of how the new or amended			and an
The status of the claim(s) is (or will be) a	s follows:		
Claim(s) allowed:			
Claim(s) objected to:			
Claim(s) rejected: of record.		,	
Claim(s) withdrawn from consideration:			
8. The drawing correction filed on is		ved by the Examiner.	
9. Note the attached Information Disclosure			
10. Other:	,,,	.,	
			

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ADVISORY ACTION

1. Applicant argues that even though Izumi teaches that a pixel electrode may be a transparent electrically conductive film or a reflective electrically conductive film, it would not be obvious to change Liu's device from a transmissive type LCD to a reflective type LCD by replacing Liu's transparent pixel electrode with the reflective pixel electrode as suggested by Izumi.

This argument is not persuasive because of the following reasons:

first, it appears that Applicant has misinterpreted the invention as suggested by Izumi. Izumi does not suggest that a transparent electrically conductive film or a reflective electrically conductive film can be used in any device as asserted by Applicant, but rather, Izumi clearly suggests that the pixel electrode itself can be made of either a transparent electrically conductive film or a reflective electrically conductive film depending upon the display device type which is desired for the liquid crystal display device (column 6, lines 15-20). In the other words, Izumi does not teach that a reflective pixel electrode made of a reflective conductive film is used for a transmission type display device as asserted by Applicant, but rather, Izumi clearly teaches that a transparent pixel electrode made of transparent conductive film is used for a transmission type display device and reflective pixel electrode made of reflective conductive film is used for a reflective type display device. Therefore, from the teaching of Izumi, one skilled in the art would not apply the reflective pixel electrode into the

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transmission type display device of Fukunaga as asserted by Applicant because it does not make any senses. In contrary, one skilled in the art would apply transparent pixel electrode into the transmission type display device, and apply the reflective pixel electrode to the reflective display device, as taught by Izumi. In the other words, applying either transparent material or reflective material for pixel electrode structure disclosed by Fukunaga would be obvious because it is an intended use depending upon the type of the display device desired for the display. Thus, using reflective pixel electrode for reflective type display device and using transparent pixel electrode for transmission type display device is a reasonable expectation of success;

second, the examiner recognizes that the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art.

See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). In this case, because Izumi clearly teaches that a transparent pixel electrode made of transparent conductive film is used for a transmission type display device and a reflective pixel electrode made of reflective conductive film is used for a reflective type display device, applying the pixel electrode structure suggested from the combination of Fukunaga and Liu into the reflective type display device or transmission type display device would be obvious because it would depend on the conductive material, which is used for the pixel electrode;

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and third, Applicant fails to provide the reasons to support that why the pixel electrode structure as claimed is only critical to apply into the reflective type display device, but not the transmission type display device.

2. Regarding independent claims 3, 4, 49 and 50, Applicant argues that Sato fails to disclose "an embedded conductive layer filled in the contact holes" because Sato does not suggest that the surface of embedded conductive layer is flush with the top surface of the insulating film and an embedded conductive layer and a pixel electrode are formed in different steps.

This argument is not persuasive because it appears that the features of having the surface of embedded conductive layer flush with the top surface of the insulating film and having an embedded conductive layer and a pixel electrode formed in different steps are not required by the claimed language. Therefore, Sato's Fig. 2 does suggest the invention as claimed. Specifically, Sato clearly discloses an embedded conductive layer filled in the contact hole (corresponding to the portion of the conductive film formed in through hole 171), and a pixel electrode formed on the third interlayer insulating film (corresponding to the portion of electrode 181 formed on the third interlayer insulating film 170). It is also noted that these claims are directed to the product, no matter how it is actually made, and the patentability of the final product must be determined, not the patentability of the process, which in any case have not been presented in "product by process" claims.

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phat X. Cao whose telephone number is (571) 272-1703. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PC

December 13, 2004

PHAT X. CAO